USGS science for a changing world

Earthquake Shaking — Green Alert

GSN · USAID FROM THE AMERICAN PEOPLE · ANSS

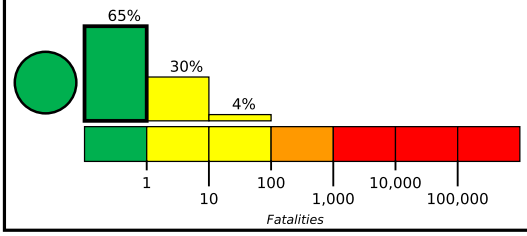
M 5.4, 31 km WNW of Moirng, India

Origin Time: 2020-10-10 17:38:01 UTC (Sat 23:08:01 local)
Location: 24.6513° N 93.5136° E Depth: 58.0 km

PAGER Version 5

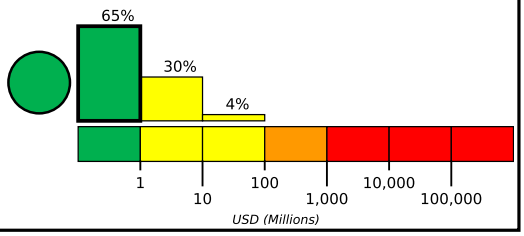
Created: 3 weeks, 4 days after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses



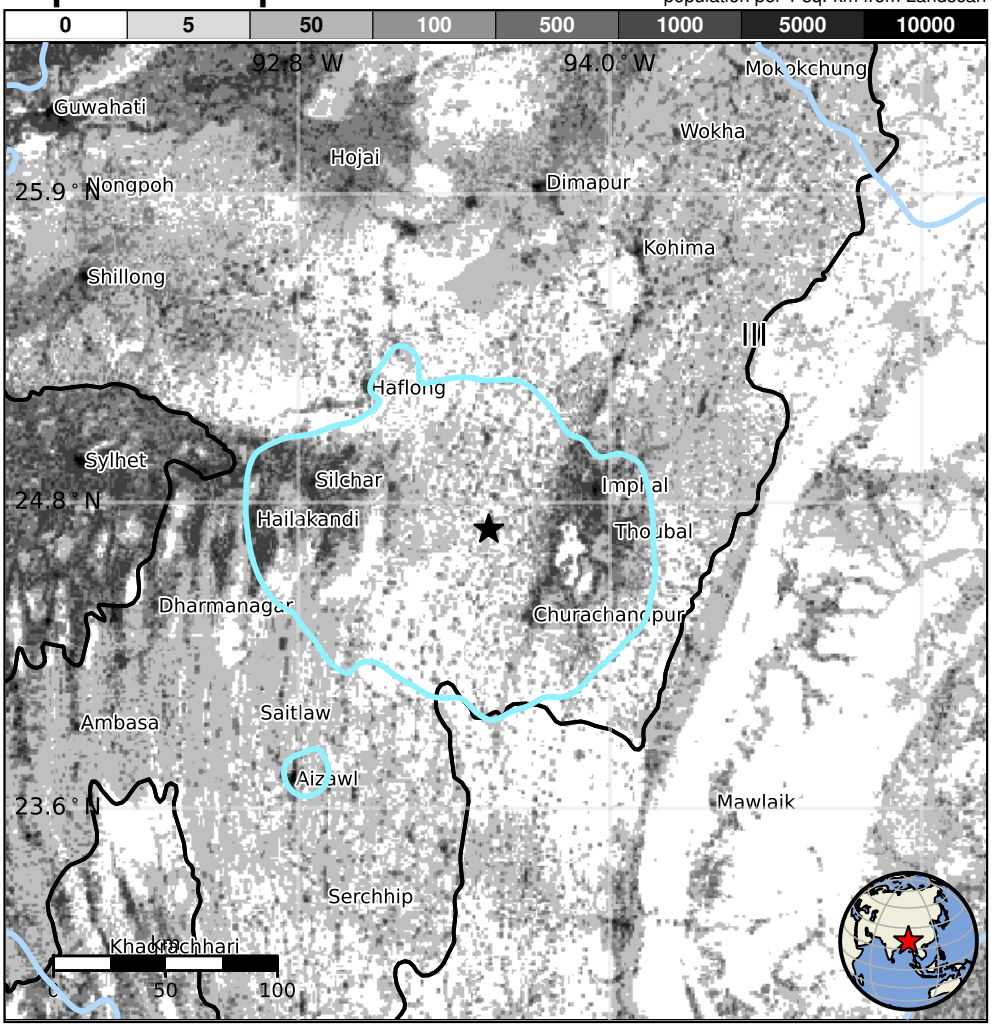
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	25,101k	5,558k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are adobe block with wood and rubble/field stone masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1988-02-06	201	5.8	VII(866k)	2
2003-07-26	232	5.6	VII(96k)	2
1984-12-30	67	6.0	IX(4k)	20

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Moirang	17k
IV	Bishnupur	<1k
IV	**Churachandpur**	**48k**
IV	Mayang Imphal	22k
IV	Lakhipur	13k
IV	Kakching	30k
IV	**Imphal**	**224k**
IV	**Aizawl**	**265k**
III	**Kohima**	**92k**
III	**Sylhet**	**237k**
III	**Shillong**	**133k**

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us6000c7ce#pager

Event ID: us6000c7ce